5/148/61/000/009/002/012 The behaviour of hydrogen during ... E071/E135

in the ingots teemed with the heating was somewhat lower than in the usual ingots; in the remaining parts of all three ingots the hydrogen content was approximately the same. The average hydrogen contents were as follows: in the usual ingots 4.98 cm3/100 g; in the ingot teemed with electroslag supplementary feeding 4.05 cm3/100 g; in the ingot teemed with electroslag heating 4.09 cm3/100 g. It is concluded that electroslag heating or supplementary feeding of the head of the ingots secures the transfer of some of the hydrogen from the metal to the slag, thus lowering somewhat the concentration of hydrogen in the whole system of the ingots but particularly in their head part. transfer of hydrogen into the slag bath takes place not only due to the Perrin-Tochinskiy effect, but also due to the electrolytic transfer of OH- ions and their discharge on electrodes during the half period when the electrodes are acting as anodes. O.A. Yesin, V.I. Yavoyskiy, G.N. Batalin and V.S. Baykov are mentioned for their contributions in this field. There are 7 figures and 13 references: 11 Soviet-bloc and 2 Russian translations of non-Soviet publications.

Card 3/4

The behaviour of hydrogen during ... S/148/61/000/009/002/012 E071/E135

ASSOCIATION: Moskovskiy institut stali, Kiyevskiy politekhnicheskiy

institut, Institut elektrosvarki, Zhdanovskiy

metallurgicheskiy zavod

(Moscow Steel Institute, Kiyev Polytechnical Institute, Electrowelding Institute, Zhdanov Metallurgical Works)

SUBMITTED: May 23, 1961

Card 4/4

5/148/61/000/011/002/018 E071/E180

Kozlov, V.I., Vishkarev, A.F., Zil'berman, A.G., AUTHORS:

and Yavoyskiy, V. I.

Diffusion of carbon and oxygen in liquid steel TITLE:

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,

Chernaya metallurgiya, no.11, 1961, 38-44

In order to establish the relative rates of diffusion of carbon and oxygen in liquid steel (which are important in TEXT: explaining the mechanism of oxidation of carbon) the authors made an attempt to measure the diffusion coefficients of these two elements in molten iron. The diffusion coefficient of carbon was determined using C14 by the method of orthoradiography. Since capillaries of 5-6 mm in diameter were used the influence of convection was not eliminated and out of numerous experiments only 11 results could be used for the determination of the coefficient. This was found to be equal to 4×10^{-5} -1.92 x 10^{-4} cm²/sec, which is close to published data. The diffusion coefficient for oxygen was determined by the method of semi-Card 1/2

Diffusion of carbon and oxygen ... S/148/61/000/011/002/018 E071/E180

infinite rod with a constant source of oxygen (blowing of oxygen on the surface of iron for one minute at a rate of 0.5 %/min). It was found that the diffusion coefficient for oxygen is higher than that of carbon by about two orders, namely (3.0 - 7.8) x 10-3 cm²/sec. The results invalidated the generally held view that the diffusion of oxygen is slower than carbon. Bearing in mind possible experimental inaccuracies, it can be stated that the diffusion of carbon in molten iron is not faster than that of oxygen. S.Z. Bokshteyn, I.S. Kulikov and A.A. Zhukhovitskiy are mentioned in the article. There are 4 figures, 2 tables and 12 references: 9 Soviet-bloc and 3 non-Soviet-bloc. The English language reference reads: Ref. 4: D.W. Morgan, J.A. Kitchener. Transactions of the Faraday Society, v.50, no.1, 1954.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute) SUBMITTED: June 24, 1961 Card 2/2

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001962320004-4

5/130/61/000/012/002/056 A005/A101 AUTHORS: Yakushev, A. M., Kryakovskiy, Yu. V., Tyurin, Ye. I., Borokin, S. F., Yavoyskiy, V. I., Glushtshov, M. V. TITLE: The effect of rare-earth elements on flake sensitivity of structural alloyed steels PERIODICAL: Metallurg, no. 12, 1961, 9-11 There are only few data available on the effect of rare-earth elements on hydrogen behavior in iron and steel and the resulting defects. To complete these data, workers of the Moscow Steel Institute and the "Krasnyy Oktyahr'" Plant carried out a series of laboratory and industrial melts. They were assisted by L. N. Permyakov, M. P. Lapshova, O. D. Petranko, V. G. Volnyanskiy, G. R. Opanchevich, V. A. Grigor'yev and V. P. Eonderev. They studied the effect of the amount of rare-earth elements (0.3 and 0.5%) on hydrogen solubility in iron and the effect of the temperature on hydrogen rolubility in alloys with 20% and more of these elements. The results have shown that it cannot be expected that rare-earth elements in the given amounts will eliminate defects of the steel; on the other hand, the increasing hydrogen sorption capacity at lower Card 1/2 2

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320004-4

8/130/61/000/012/002/006 The effect of rare-earth elements ... temperatures of alloys containing these-elements leads to the expectation that they will bind the hydrogen liberated during the cooling of metal and prevent flaks formation. These results were chacked by the experimental melting of 37 XC (37KnS), 38 XCA (38knSA) and 36F2 C (36028) steels containing 6.3 - 8.0 cm³/ 100 g hydrogen, ferrocerium with 94 - 95% Ce, misch metal with 45 - 55% Ce, 25 - 30% La and up to 15% other rare-earth elements. Ingots were heated for 4 - 6 hours at 1,150 - 1,180°C in bloomingsits and rolled into 400 - 500 mm air-cooled specimons, which were subjected to breaking tests and stening to establish their flake sensitivity. Results obtained are given in a table and show that the addition of rare-earth elements in amounts exceeding 2.7 kg/t prevent flake formation in 37Kh9 and 36023 stoel even in profiles of 195 - 225 mm section, under the condition that individual blocks be air-cooled. The experiment has shown that rapid cooling of the blooms will be possible due to the use of rare-earth elements. This will entail a number of economical and technical advantages. There are 1 table and 2 figures. Card 2/2

YAKUSHEV, A.M.; YAVOYSKIY, V.I.; KRYAKOVSKIY, Yu.V.; Prinimali uchastiye: TYURIN, Ye.I., kand.tekhn.nauk; KRAUZE, I.E., kand.tekhn.nauk; VISHKAREV, A.F., kand.tekhn.nauk

Effect of rare earth elements on hydrogen solubility in liquid iron. Izv. vys. ucheb. zav.; chern. met. 4 no.7:44-54 161.

(MIRA 14:8)

1. Moskovskiy institut stali.
(Iron—Hydrogen content)
(Rare earth metals)

KOZLOV, V.I.; VISHKAREV, A.F.; ZIL'BERMAN, A.G.; YAVOYSKIY, V.I.

Diffusion of carbon and oxygen in liquid steel. Izv. vys. ucheb. zav.; chern. met. 4 no.11:38-44 '61. (MIRA 14:12)

1. Moskovskiy institut stali. (Gases i

(Gases in metals)
(Diffusion)

KISELEV, A.A., inzh.; YAVOYSKIY, V.I., prof., doktor tekhn.nauk

Improving the crack resistance of steel ingots. Stal! 21 no.2:112-119 F 161. (MIRA 14:3)

1. Zavod "Krasnyy Oktyabr's i Moskovskiy institut stali. (Steel ingots-Defects)

35218

S/148/62/000/001/002/015 E071/E180

18,7130

Yakushev, A.M., and Yavovskiy, V.I.

TITLE:

Card 1/2

The influence of vanadium and boron on the solubility of hydrogen in liquid iron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Chernaya metallurgiya, no.1, 1962, 52-56

TEXT: The influence of boron and vanadium on the solubility of hydrogen in liquid iron was investigated using an apparatus described earlier by the present authors and Yu.V. Kryakovskiy (Ref.1: Izv.vuz Chernaya metallurgiya, no.7, 1961) at hydrogen pressures of 18-41 mm Hg. The accuracy of the method was tested by measuring the influence of silicon on the solubility of hydrogen in iron. The results obtained agree well with the literature data. The solubility of hydrogen in liquid iron at 1560 and 1655 °C, as well as in solid iron near its crystallisation temperature, was determined. The respective solubilities were: temperature, was determined. The respective solubilities were: solid iron 12.2 cm³/100g, at 1655 °C, 30.80 cm³/100g, and in solid iron 12.2 cm³/100g. The influence of up to 9.3% vanadium was studied at 1560 °C. In liquid Fe + V alloys, the solubility

X

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP

CIA-RDP86-00513R001962320004-4"

The influence of vanadium and boron.. 5/148/62/000/001/002/015

of hydrogen increases with increasing vanadium content, and for alloys containing up to 6% vanadium it is proportional to the square root of hydrogen pressure. The temperature coefficient of hydrogen solubility for the alloys is lower than for pure iron. Additions of boron to liquid iron (up to 0.2%) have no influence on hydrogen solubility. There are 2 figures and 2 tables.

ASSOCIATION: Moskovskiy institut stali

(Moscow Steel Institute)

SUBMITTED: September 19, 1961

Card 2/2

LUZGIN, V.P.; VISHKAREV, A.F., kand.tekhn.nauk; YAVOYSKIY, V.I., doktor tekhn.nauk

Method for the automatic measurement of carbon content in liquid steel. Avtom.i prib. no.3:18-20 J1-5 62. (MIRA 16:2)

 Moskovskiy institut stali. (Steel—Analysis)

37238

S/148/62/000/003/003/011 E071/E435

18.1100 **AUTHORS:**

Vishkarev, A.F., Kryakovskiy, Yu.V.,

Bliznyukov, S.A., Yavoyskiy, V.I.

TITLE:

Influence of rare earth elements on the surface

tension of liquid iron

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy.

Chernaya metallurgiya, no.3, 1962, 60-67

The surface activity of rare earth elements in iron is of TEXT: importance from the point of view of their modifying effect which is caused by preferential adsorption of surface active components on faces of growing crystals, inhibiting their growth. In multi-component systems, changes in the surface tension could be due not only to the adsorption of a given component but also . due to various physico-chemical processes taking place in the melt (e.g. deoxidation, desulphurization, changes in the activity of other components), for this reason the influence of rare earth elements on the surface tension of specially purified liquid iron was measured (not more than: 0.020% C, 0.015% Mn, 0.005% Si, 0.0028% P, 0.002% S and 0.003% 02). The method Card 1/3

S/148/62/000/003/003/011 E071/E435

Influence of rare earth ...

consisted of measuring the maximum pressure of gas bubbles in vacuo or in a controlled atmosphere. Well purified argon was used for blowing bubbles and as a protective atmosphere. apparatus and experimental procedure are described in some detail. It was found that cerium and lanthanum are surface active. cases, first additions of cerium (up to 0.45%) lower the surface tension of iron by 100 to 120 erg/cm2, whilst further addition of cerium increases the surface tension of iron due to its reaction Lanthanum acts similarly but a with oxygen and sulphur. decrease in the surface tension was noted only after the first This is explained by a higher deoxidizing and addition (0.1%). desulphurizing ability of lanthanum in comparison with cerium. The influence of the admixtures present in iron on changes in the surface tension on the addition of rare earth elements (Ce, La, Nd, Pr) was demonstrated by using ordinary armco iron and carrying out experiments without a protective atmosphere. In this case additions of rare earth elements caused an increase in the surface tension of iron; only in a few cases was a small decrease This indicates that the observed after the first addition. Card 2/3

Influence of rare earth ...

S/148/62/000/003/003/011 E071/E435

increase in the surface tension is associated with the deoxidation and desulphurization of the metal (in the case of deoxidation confirmed by analysis). The modifying influence of additions of rare earth elements was confirmed on special heats of X23H18 (Kh23N18) steel made in a 30 kg induction furnace. The grain size of the metal in the cast state was found to be diminishing with an increasing amount of rare earth element added. There are 6 figures and 2 tables.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: November 22, 1961

Card 3/3

KINNE, G.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Thermodynamics of steel deoxidation by lanthanum, cerium, praseodymium, and neodymium. Izv. vys. ucheb. zav.; chern. mit. 5 no.9:92-98 '62. (MIRA 15:10)

1. Moskovskiy institut stali i splavov.
(Steel-Metallurgy) (Rare earth metals)

AEROSIMOV, Ye.V.; YAVQYSKIY, V.I.; LUZGIN, V.P.; STARKOV, P.A.; SURGUCHEV, G.D.; GRICOR'YEV, V.P.

Automatic control of the open-hearth process. Izv.vys.ucheb.zav.; chern.met. 5 no.11:37-41 162. (MIRA 15:12)

1. Moskovskiy institut stali i splavov.
(Open-hearth process) (Automatic control)

S/133/62/000/007/002/014 A054/A127

AUTHORS:

Yavoyskiv. V.I., Professor, Doctor of Technical Sciences; Bektursunov, Sh.Sh., Engineer; Chernega, D.F.; Tyagun-Belous, G.S.;

Dudko, D.A.; - Candidates of Technical Sciences

TITLE:

Electroslag heating and additional feeding in casting 10 \(\Gamma 2 C A\)

(1002SD) slabs for sheet rolling

PERIODICAL: Stal', no. 7, 1962, 611 - 615

TEXT: The new "electroslag-heating" method described by G.S. Tyagun-Belous and D.A. Dudko (Ref. 1, Avtomaticheskaya svarka, no. 9, 10, 1956, no. 8, 11, 1958) eliminates the drawbacks in the usual methods of reducing metal losses in the riser head. In the upper part of the ingot mold a mixture of 45% crushed chamotte and 55% fine-graded coke is spread on the metal surface, in an amount of 2 kg/ton steel, then 14 kg/ton slag forming materials are added. Through the layer forming from these elements which smelts and becomes electro-conductive, a current of industrial frequency is led. The slag layer developing in the dozzle of the mold is 80 - 100 mm thick. In the electroslag-heating method

Card 1/4

S/133/62/000/007/002/014 A054/A127

Electroslag heating and additional feeding in ...

carbon electrodes (50 - 150 mm in diameter) are used. If this process is combined with additional reeding, 80 - 100-mm diameter self-baking electrodes of the same grade that is being smelted are used. The ingots cast by the first me weighed 7.55 cons, those of the combined method 7.3 - 7.4 tons, while the standard ingots were 8.2 tons. The slag forming elements used were chamotte powder, lime, fluorite. Shrinkage cavities were not found in the ingots cast with electroslag heating, but the highest density was obtained, when electroslag heating and additional feeding were applied. The test ingots and one control ingo were examined for chemical nonhomogeneity, the amount of residual hydroger, lickling and mechanical properties. The positive liquation of carbon was 7% in the ingot heads subjected to additional feeding, 2% in case of electroslag heating, and 200% for the control ingot. The corresponding values for the sulfur content were 0.0 and 10% and for phosphorus 0.5 and 50%. The decrease of liquation can be explained by the activity of the slag layer, which absorbs the additives from the smelted metal at their interface. This process is considerably intensified by the convective flows circulating at a rate of about 4 m/min in the ingot mold during crystallization, entraining liquid metal from the lower, solidifying parts of the ingot upward to the riser, i.e., to the electrical-

Card 2/4

Electroslag heating and additional feeding in

S/133/62/000/007/002/014 A054/A127

ly heated slag layer. For the same reason the hydrogen content of the ingots also decreases. In the test ingots produced with electroslag heating the hydrogen content was 4.09 cm³/100 g, in the ingot with additional feeding 4.05 cm³/ /100 g, and in the control ingot 4.98 cm3/100 g. The effect of convective flows was investigated by radiometry, using a P32-50 millicurie-isotope. As to mechanical properties, the highest values were found in ingots treated by electroslag heating, without additional feeding: $\sigma_B = 50 - 56$ and $\sigma_s = 37 - 42 \text{ kg/mm}^2$; in the riser part of the ingot the highest mechanical parameters were obtained for ingots with additional feeding: $\sigma_B = 50 - 55$, $\sigma_s = 40 - 45 \text{ kg/mm}^2$. The effect of the quality of current on the properties of the ingots was also studied by means of a d-c welding generator (1,100 amp, 40 v) and 3.4 ton 10G2SD in-The highest parameters and the most uniform distribution of elements were found a ingots heated by direct current with a direct polarity. Similar results can be obtained also with alternating current of industrial frequency, which s important from the practical point of view. If electroslag heating of the riser is applied, the saving in metal is 6 - 7%; if additional feeding is also applied, it is 10 - 11%. The riser volume can be reduced by 3 - 5%. It is also possible to dispense with the riser completely. The methods should be ap-

Card 3/4

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320004-4

Electroslag heating and additional feeding in $\frac{S/133/62/000/007/002/014}{A054/A127}$

plied mainly for carbon steel and low-alloy steel ingots for heavy-duty products.

Card 4/4

s/148/62/000/009/002/007

Kinne, G., Vishkarev, A.F., Yavoyskiy, V.I. AUTHORS:

Thermodynamics of the deoxidation of steel with TITLE: lanthanum, cerium, praseodymium and neodymium

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya, no.9, 1962, 92-98

Published data are used to calculate the thermodynamic characteristics applicable to lanthanum, cerium, praseodymium and neodymium when used for steel deoxidation. The activity of cerium at steelmelting temperatures is estimated from the phase equilibrium diagram. Up to 5% Ce the following equations hold

 $a_{Ce} = 3.9 [\% Ce] - 0.138 [\% Ce]^{2}$

 $\gamma'_{Ce} = 3.9 - 0.138 [\% Ce]$ (6) $\gamma_{Ce} = 3.9 - 3.29[N_{Ce}].$

the other elements can be assumed to behave similarly. Card 1/2

Thermodynamics of the deoxidation ... S/148/62/000/009/002/007

pressure calculation for 1% concentration at 1600°C shows that there can be hardly any evaporation of Ce and La, whereas certain oxides (particularly Ce₂O₃) could evaporate. The deoxidizing power of the elements is greater than that of aluminium or zirconium and sometimes may exceed that of beryllium; it rises in the following order: Ce, La, Pr, Nd if CeO₂ is produced or La, Pr, Nd, Ce if Ce₂O₃ is produced. For experiments the authors recommend crucibles of CaO, ThO₂, La₂O₃, Ce₂O₃, Nd₂O₃, Pr₂O₃ or stable nitrides. There are 4 figures and 5 tables.

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Steel and Alloys Institute)

SUBMITTED: April 25, 1962

Card 2/2

GRIGOR'YEV, V.P.; LUZGIN, V.P.; ABROSIMOV, Ye.V.; ORLOV, V.I.; YAVOYSKIY, V.I.; GURSKIY, G.L.; GONCHAROV, I.A.; STARKOV, P.A.

Materials balance in the scrap metal-iron ore process. Izv. vys. ucheb. zav.; chern. met. 5 no.5:63-67 '62. (MIRA 15:6)

Moskovskiy institut stali zavod "Zaporozhstal".
 (Steel—Metallurgy)

SURGUCHEV, G.D.; BLINOV, O.M.; YAYOYSKIY, V.I.

Control of open-hearth furnace smelting by the composition of the combustion products. Izv. vys. ucheb. zav.; chern. met. 5 no.7:56-61 '62. (MIRA 15:8)

1. Moskovskiy institut stali i splavov.
(Open-hearth process)

U DIN-FEN! [Wu Ting-fan]; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Density of molten steelmaking slag. Izv. vys. ucheb. zav.; chern. net. 5 no.9:66-75 '62. (MIRA 15:10)

 Moskovskiy institut stali i splavov. (Slag—Density)

IAVOISKI, V.I. [Yavoyskiy, V.I.]; CERNEGA, D.F. [Chernega, D.F.]; DUDKO, D.A.; TEAGUN-BELOUS, G.S. [Tyagun-Belous, G.S.]; EEKTURSUNOV, S.S. [Bektursunov, Sh.Sh.]; BOCIAROV, V.A. [Bocharov. V.A.]; AGAMALOVA, L.L.; MOLOTKOV, V.A.; IAKOBSE, R.1. [Yakobshe, R.Ya.]; POTANIN, E.M. [Potanin, Ye.M.]

Electrolytic phenomena during the slag electric heating of the ingots. Analele metalurgie 16 no.2:5-18 Ap-Je '62.

YAVOYSKIY V.1

BEKTURSUNOV, S.S. [Bektursunov, Sh. Sh.]; IAVOISKI, V.I. [Yavoyskiy, V.I.]; CERNEGA, D.F. [Chernega, D.F.]; TEAGUN-BELOUS, G.S. [Tyagun-Belous, G.S.]; SITOVA, N.M. [Sytova, N.M.]

Behavior of hydrogen during the slag electric heating and additional feeding of the ingots. Analele metalurgie 16 no.2:19-30 Ap-Je '62.

IAKUSEV, A.M. [Yakushev, A.M.]; IAVOISKI, V.I. [Yavoyskiy, V.I.]

Influence of vanadium and boron on the solubility of hydrogen in liquid iron. Analele metalurgie 16 no.4:49-54 O-D '62.

YAVOYSKIY, V.I., prof., doktor tekhn.nauk; BEKTURSUNOV, Sh.Sh., inzh.;

CHERNEGA, D.F., kand.tekhn.nauk; TYAGUN-HELOUS, G.S., kand.tekhn.nauk;

DUDKO, D.A., kand.tekhn.nauk; Prinimali uchastiye: MOLOTKOV, V.A.;

BELYAYEV, Yu.P.; YAKOBSHA, R.Ya.; AGAMALOVA, L.L.; CHEKALENKO, G.A.;

BOCHAROV, V.A.; KISSEL', N.N.; POTANIN, Ye.M.; SYTOVA, N.M.

Electric slag heating and additional feed of large sheet billets made of 10G2SD steel. Stal' 22 no.7:611-615 J1 '62.

(MIRA 15:7)

(Steel ingots) (Rolling (Metalwork))

YAVOYSKIY, Vladimir Ivanovich; CHERRYAK, L.Ye., red.; MIKHAYLOVA, V.V., tekhn. red.

[Theory of steel production processes] Teoriia protsessov proizvodstva stali. Moskva, Metallurgizdat, 1963. 820 p. (MIRA 16:12)

(Steel-Metallurgy)

U DIN-FEN: [Wu Ting-Fen] VISHKAREV, A.F.; YAVOYSKIY, V.I.

Surface tension of phosphate slags. Izv. vys. ucheb. zav.; chern. met. 6 no.3:40-45 '63. (MIRA 16.5)

1. Moskovskiy institut stali i splavov.
(Slag) (Surface tension)

LUZGIN, V.P.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Determining oxygen activity in Fe-C-O melts by the electromotive force method. Izv. vys. ucheb. zav.; chern. met. 6 no.5:44-50 (MIRA 16:7)

1. Moskovskiy institut stali i splavov.
(Liquid metals--Oxygen content)
(Vapor-liquid equilibrium)

L 11071-63 EWP(q)/EWT(m)/BDS--AFFTC/ASD--JD/JG ACCESSION NR: AP3001375 S/0148/63/000/005/0065/0069 AUTHOR: Kinne, G.; Vishkarev, A. F.; Yavoyskiy, V. I. TITLE: Deckidizing capacity of rare-earth elements (lanthanum, cerium, praseodymium and neodymium) SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1963, 65-69 TOPIC TAGS: rare-earth elements, lanthanum, cerium, praseodynium, neodymium, deoxidation, aluminum, calcium, magnesium, deoxidation constants, smelting temperature, beryllium, zirconium ABSTRACT: The rare-earth elements lanthanum, cerium, praseodymium, and neodymium exhibit deoxidizing capacities exceeding those of aluminum and zirconium even approach the activity of calcium and magnesium. Predictions of activity from thermodynamic calculations are borne out by the experimental results. The deoxidation mechanism was studied indirectly, by conducting smelting operations in an Al sub 2 0 sub 3 crucible, with the material studied and the crucible material achieving equilibrium within 15-25 minutes, when measurements were made. Deoxidation constants for the four rare earth elements are given as a function of smelting temperature; comparative information for beryllium and zirconium are also provided. Orig.

U DIN-FEN: [Wh Ding-fen]; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Surface tension of iron and lime slags. Izv.vys.ucheb.zev.;chern. met. 6 no.1:27-33 '63. (MIRA 16:2)

1. Moskovskiy institut stali i splavov.
(Slag) (Surface tension)

SURGUCHEV, G.D.; BLINOV, O.M.; REYSS, M.R.; YAVOYSKIY, V.I.

Automatic control of charging and preheating periods in openhearth smelting. Izv. vys. ucheb. zav.; chern. met. 6 no.9: 39-44 '63. (MIRA 16:11)

1. Moskovskiy institut stali i splavov.

LUZGIN, V.P.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Determining the deoxidizing properties of elements by the electromotive force method. Izv. vys. ucheb. zav.; chern. met. 6 no.9:50-54 163. (MIRA 16:11)

1. Moskovskiy institut stali i splavov.

L $17462-63$ EWP(q)/EWACCESSION NR: AP3004782	T(m)/BDS AFFTC/AS	D JD S/0129/63/000/008/0011/0018	
	Rubenchik, Yu. I.	Tyurin, Yo. I.; Yavoyskiy, V. I.	•
TITLE: Mechanical properties construction steel with a rar	and nature of none act earth element admi	estallic inclusions in alloyed	/
FOPIC TAGS: steel mechanical alloy steel, mischmetal, 30KhC	property; steel no SA steel, 12KhlMF st	nmetellic inclusion, eel, 12KhNZA steel	
They also studied the nature earth element admixtures. The	properties of 30Kh0 of non-metallic inc test heats were ex	SA/012Kh1MF And 12KhWZA/Steels. Usions in a steel with rare secuted in basic 60 and 140-	
that mischmetal admixtures in	amounts of 0.5 to 3 impact touchness in ne cold brittleness	drawn-out and transverse camples threshold of 12KhlMF steel,	3.
steel. The introduction of m			

ACCESSION NR: AP300478		/-	:
the increase in mechaninischmetal is added to which are caused by concessible. Orig. art. h	bts. Rare earth elements alter the plusions in steel, which, in all plusions in steel, which, in all plusions in steel, when more than 0 an ingot, the appearance of macro aglomeration of the rare earth elemes; 3 figures and 3 tables.	fobabilities, explains 0.8-1.0 kg per ton of 0 defects in the steel, ment inclusions, is	
nd alloys)	y institut stali i splavov (Mosco	w institute for steel	
UBMITTED: 00	DATE ACQ: O6Sep63	ENCL: 00	
GB CODE: ML	NO REF SOV: 004	OTHER: COO	
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JB CODE: ML	NO REF SOV: 004	OTHER: 000	
UB CODE: ML	NO REF SOV. 004	OPHER: 000	

YAYOYSKIY, V.I.; BEKTURSUNOV, Sh.Sh.; BELYAYEV, Yu.P.; MOLOTKOV, V.A.; DUDKO, D.A.

Metal distribution by consumable electrodes in the volume of an ingot during additional electric slag feeding. Avtom. avar. 16 no.11:40-43 N '63. (MIRA 17:1)

- 1. Moskovskiy institut stali i splavov (for Yavoyskiy).
- 2. Karagandinskiy politekhnicheskiy institut (for Bektursunov).
- 3. Zhdanovskiy metallurgicheskiy zavod imeni Il'icha (for Belyayev, Molotkov). 4. Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR (for Dudko).

L 12846-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG

ACCESSION NR: AP3001467 S/0133/63/000/005/0422/0425 76

AUTHOR: Yavoyskiy, V. I. (Dr. of technical sciences); Matevosyan, P. A. (Engineer)

Kryakovskiy, Yu. V. (Candidate of technical sciences); Tyurin, Ye. I. (Candidate of technical sciences);

Permyakov, L. N. (Engineer); Antipov, K. I./(Engineer)

TITLE: Use of rare-earth elements in smelting of structural alloy steel and of stainless steel

SOURCE: Stal', no. 5, 1963, 422-425

TOPIC TAGS: Ce, La, Nd, Pr, Ni, Armco-iron, steel Kh23N18, steel KhGSA, steel lKh18N9T, steel 12KhlMF, steel 40Kh, flake formation, steel 37KhS, steel 36G2S, steel 30KhSA

ABSTRACT: The influence of rare-earth elements on properties of different kinds of steel was investigated at Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys). Ce, Ia, Nd, and Pr were used separately in the form of an alloy (45-57% Ce, up to 28% Ia, and up to 15% Nd). Laboratory tests indicated that Ce and Ia lowered the surface tension of molten steel.

Card 1/32

ACCESSION NR: AP3001467	15
It was shown that rare-earth elements used in metallurgy (up to 0.3%)	do not
change the concentration of hydrogen dissolved in molten steel. These	elements
formed stable nitrides and had a deoxidizing and desulfurizing effect	on
Armco-iron, on steel Kh23N18, and on steel 30KhGSA. The steel smelted	with
rare-earth elements was twice as tough as without them. The afterchar	ge of
rare-earth elements improved the elasticity of stainless steel Kh23N18	and
reduced the total amount of nonmetallic impurities. Moreover, 15 of 1	

saved, without any loss of elasticity, when rare-earths were added in making the steel IKhl8N9T, while the addition of rare-earths to a number of structural alloy steels (30KhGSA, 12KhlMF, 40Kh) improved their elasticity. An addition of up to 1.5 kg/t of rare-earths reduced but did not eliminate the formation of flakes in steel 37KhS, 36G2S, and 30KhSA. However, adding up to 2.7-2.8 kg/t the formation of flakes/was completely eliminated. "The melts were made with the assistance of M. N. Kul'kova, B. S. Petrov, M. P. Iapshova, G. D. Shury*gin, V. A. Grigor'yev, B. N. Okorkov, A. M. Yakushev, P. N. Balashev, G. R. Opanevich, and others." Orig. art. has: 2 figures and 5 tables.

Card 2/8>

L 12846-63

MOKHAMED FIKRI ABDEL'RAZIK MIKKAUI; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Nature of the brown smoke formed during the oxygen blowing of the metal. Izv. vys. ucheb. zav.; chern. met. 6 no.11:37-41 '63.

(MIRA 17:3)

1. Moskovskiy institut stali i splavov.

NECHKIN, Yu.M.; KUDRIN, V.A.; YAVOYSKIY, V.I.

Effect of the basicity of open-hearth furnace slags on their tendency to foam. Izv. vys. ucheb. zav.; chern. met. 7 no.3: 53-56 '64. (MIRA 17:4)

1. Moskovskiy institut stali i splavov.

KRUPMAN. L.I.; YAVOYSKIY, V.I.

Kinetics of the dissolution of ferroalloys in steel-pouring ladles. Izv. vys. ucheb. zav.; chern. met. 7 no.9:35-42 '64. (MIRA 17:6)

1. Donniichermet i Moskovskiy institut stali i splavov.

ACCESSION NR: AP4039272

8/0148/64/000/005/0040/0045

AUTHOR: Vvedenskiy, V. S.; Rubenchik, Yu. I.; Semenchenko, G. V.; Kryakovskiy, Yu. V.; Yavoyskiy, V. I.

TITIE: Improvement of deoxidation methods during the finishing of "10Kh16N25M6" and "40KhNMA" steel

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1964, 40-45

TOPIC TAGS: rare earth metal, stainless steel, structural steel, austenitic carbide steel, low plasticity, hot working, calcium silicon additive, deformation, nonmetallic inclusion, ferrocerium, grain coarsening

ABSTRACT: The authors investigated the effect of rare earth metals on the quality of stainless and structural steel. Austenitic carbide steel "10Kh16N25M6" served as a specimen. The low plasticity of this steel after hot working was studied in cast and forged pieces. Calcium silicon powder and lumps were added to the melt. Deformed and non-deformed specimens ruptured after forging and 180 C bending. Chromite inclusions were identified in all specimens. In cast and rolled specimens 0.2% ferrocerium enhanced plasticity while mechanical properties

ard 1/2

ACCESSION NR: AP4039272

remained unchanged. The carbide phase was more uniformly distributed. In "40KhNMA" structural steel 1 kg/t ferrocerium and calcium silicon added during the finishing period to an 18 ton electric furnace prevented hairline cracking. The authors assume that deoxidation during the finishing stage changes the physical properties of non-metallic inclusions. A coarsening of the natural grain of up to 4 ASTM is indicative of a higher purity along grain boundaries. Orig. art. has: 5 figures and 3 tables.

ASSOCIATION: Moskovskiy institut stali i splavov i Izhevskiy metallurgicheskiy zavod (Moscow Instituta of Steel and Alloys and Izhevsk Metallurgical Plant)

SUBMITTED: 30Dec63

ENCL: 00

SUB CODE: | MM

NO REF SOV: 002

OTHER: 000

DRAGOMIR, I.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Investigating the properties of iron-phosphorus melts. Izv. vys. ucheb. zav.; chern. met. 7 no.7:48-52 '64

(MIRA 17:8)

1. Moskovskiy institut stali i splavow.

RUBENCHIK, Yu.I.; KRYAKOVSKIY, Yu.V.; YAVOYSKIY, V.I.; KUL'KOVA, M.N.

Nature of nonmetallic inclusions of rare-earth elements in iron and steel. Zav. lab. 30 no.1:57-58 '64. (MIM 17:9)

1. Moskovskiy institut stali i splavov.

PERMYAKOV, L.N. (Moskva); KRYAKOVSKIY, Yu.V. (Moskva); VISHKAREV, A.F. (Moskva); YAVOYSKIY, V.I. (Moskva)

Effect of rare-earth metals on the behavior of nitrogen in liquid iron and steel. Izv. AN SSSR. Met. i gor. delo no.4:68-75 Jl-Ag '64. (MIRA 17:9)

YAVORSKIY, V.I.

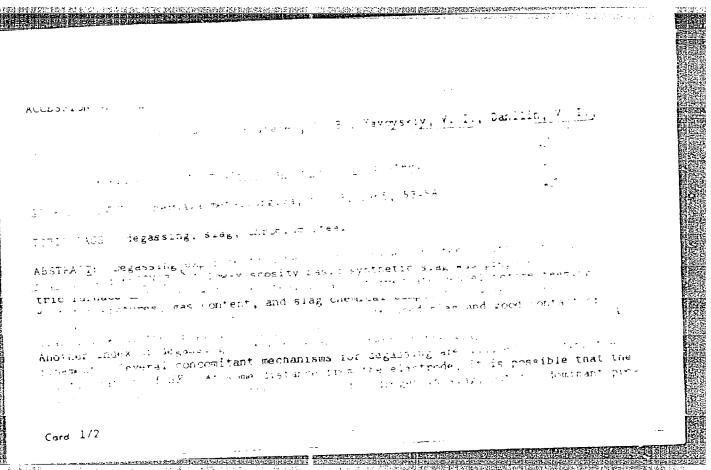
Age of the sediments of the Tom Chungsh horizon. Sov. gool. 7 no.5:132-134 My 164 (MIRA 18:2)

1. Vsesoyuznyy nauchno-isaledovatel skiy geologicheskiy institut.

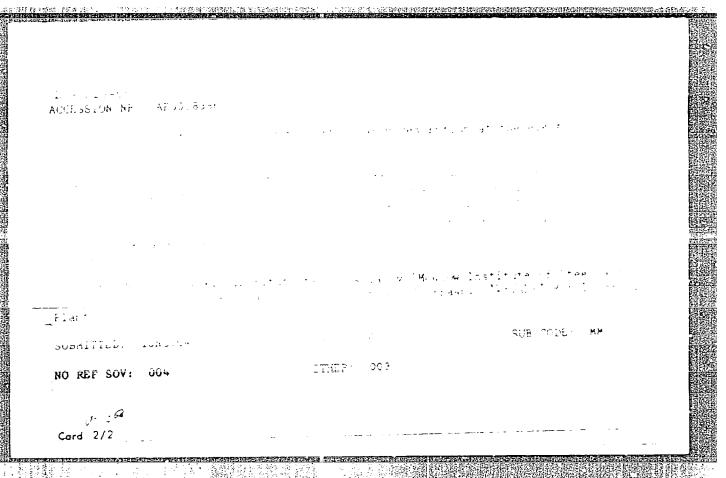
YAVORSKIY, V.I.

Reducing lorges during the mining of high-grade coal in the Kunnetsk Basin is the great objective of the national economy. Rezved. i okh. nedr 30 no.2:39-40 F 164. (MIRA 17:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut.



APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001962320004-4"



LUZGIN, V.P.; VISHKAREV, A.F.; YAVOYSKIY, V.I.

Interaction of oxygen and carbon in liquid iron. Izv. vys. ucheb. zav.; chern. met. 8 no.1:22-25 '65 (MIRA 18:1)

1. Moskovskiy institut stali i splavov.

YAVOYSKIY, V.I., otv. red.; BIGEYEV, A.M., red.; BORKO, Ye.A., red.; GLINKOV, M.A., red.; ZARVIN, Ye.Ya., red.; KAPUSTIN, Ye.A., red.; KOCHO, V.S., red.; KUDRIN, V.A., red.; LAPITSKIY, V.I., red.; LEVIN, S.L., red.; OYKS, G.N., red.; ROMENETS, V.A., red.; UMRIKHIN, P.V., red.; FILIPPOV, S.I., red.

[Theory and practice of the intensification of processes in converters and open-hearth furnaces; transactions]
Teoriia i praktika intensifikatsii protsessov v konferterakh i martenovskikh pechakh; trudy. Moskva, Metallurgiia, 1965. 552p. (MIRA 18:10)

1. Mezhvuzovskoye nauchnoye soveshchaniye po teorii i praktike intensifikatsii protsessov v konverterakh i martenovskikh pechakh. 2. Moskovskiy institut stali i splavov (for Filippov). 3. Zhdanovskiy metallurgicheskiy institut (for Kapustin). 4. Ural'skiy politekhnicheskiy institut (for Umrikhin).

L 9774-66 EWT(m)/EWP(t)/EWP(b) JD	
MP3026298	
AUTHOR: Kamenskiy, Yu. M. (Engineer); Sukhotin, B. N. (Engineer); Yavoyskiy, V. I.	
ORG: [Kamenskiy, Sukhotin] Moscow Serp i Molot Plant (Moskovskiy zavod "Serp i splavov) ORG: [Kamenskiy, Sukhotin] Moscow Serp i Molot Plant (Moskovskiy zavod "Serp i splavov)	,
TITLE: Use of single-phase transformers in electronian	
avarka, no. 10. 1965 60 7.	
TOPIC TAGS: electric transformer, electroslag melting, voltage regulation, slag /	
ABSTRACT: The recently developed ECON-2000/10 single-phase transformers used for viously employed for this purpose. They have a larger number of voltage stages which, sults of an experimental investigation which shows that during the melting the voltage increase in power requirement and in the temperature of slag and metal, as well as a Cord 1/2	0
UDC. 621.791.9,621.314,2	

L 9774-66

ACC NR: AP5026298

rise in melting rate, which results in an increase in the depth of the molten pool with all the adverse consequences that this entails. To compensate for the rise in voltage, and also for instantaneous fluctuations in power-system voltage, the transformer stages are periodically switched at the optimal time instant during the melting so as to maintain a fairly constant power level. This is accomplished with the aid of an efficient current regulator. As a corollary, a basic requirement for an effective electroslag melting: stability of the electric regime, must be redefined. Now this stability does not mean a fixed level of such parameters as current intensity, voltage or electrode feeding rate, throughout the melting process. What is necessary rather is a continuous, flexible control of the variation in these parameters during the melting process. The ingots thus produced are of a more uniform quality. Orig. art. has: 4 figures, 1 table.

SUB CODE: 09, 11/ SUEM DATE: 28Dec64/ ORIG REF: 001/ OTH REF: 000

$-\underline{\text{L Out}_36\text{-}67} = \text{EMP(k)/EMT(m)/EMP(t)/ETI} = \text{WM/JD/JG}$	
ACC NR: AP6027005 (N) SOURCE CODE: UR/0148/66/000/005/0073/0077	
AUTHOR: Afanas'yev, Yu. I.; Kamenskiy, Yu. M.; Sukhotin, B. N.; Yavoyskiy, V. I.	
ORG: Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov)	
TITLE: Certain problems of the crystallization of ingots of electroslag-remelted metal. Report 1.	
SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1966, 73-77	
TOPIC TAGS: metal crystallization, electroslag melting, metal melting, molten metal	
ABSTRACT: Oriented crystallization is one of the chief advantages of the electroslag remelting process, but it requires the observance of specified conditions. Thus, the optimal depth of the molten metal bath must be one-half of the diameter (side) of the crystallizer,	
for ingots weighing up to 1000 kg. The optimal form of the molten metal bath in the case of a cone-shaped crystallizer is assured by maintaining a constant linear rate of ingot build-up,	
which can be done by gradually reducing the electrode feed rate, on the basis of the equation:	-
$v_b = v_{r.b.} = v_e \frac{S_{cr} - S_e}{S_{cr} - S_e}$ where v_b is the linear ingot build-up rate: $v_{r.b.}$ is the rate of	
rise in the level of the slag bath (for a constant height of slag bath $v_b = v_{r,b,\cdot}$); v_e is the linear	-
Card 1/3 UDC: 669. 087: 532. 78	
"我们,我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的,我们就没有一个人,我们就会没有一个人,我们就会会不会的。""我们就是我们的,我们就会没有	

0

electrode feed rate; S_e is the cross sectional area of electrode (S_e = const); and S_{cr} is the cross sectional area of the crystallizer (decreasing with height). The constancy of the optimal Rate, mm/min

shape of the molten metal bath is also assured by a definite ratio between the solidification rate v_s and the build-up rate v_b (Fig. l.), such that v_s somewhat exceeds v_b . Further, an

Fig. 1. Ratio between linear rates of build-up $\mathbf{v}_{\mathbf{b}}$ and solidification $\mathbf{v_s}$ assuring constancy of optimal shape of the molten metal bath. I-III -- melting stages; $\Delta v = v_8 - v_b$: $1 - \Delta v \approx 0$; II - $\Delta v < 0$; III - $\Delta v > 0$

Time, min.

2/3 Card

L 04736-67

ACC NR. AP6027005

investigation of and ingot to the that the bath de zation at a give age of the inwith, and hence of ingot shape.	the pattern of crystallizer we pth may be option level prior to got and the slag also the cooling.	alls, performed imized by assur any marked re g crust from the ng effect of, the	d with the aid oring the completencession — duce crystallizer	of a technic etion of the to horizon walls and t	cal themore process ontal and volume hus prese	meter, show of crystalli ertical shri erving conta	s - ink- ict
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EWT(m)/EWP(w)/T/EWP(t)/ETI SOURCE CODE: UR/0133/66/000/001/0072/0073 ACC NR: AP6030051 AUTHOR: Kul'kova, M. N.; Ponomareva, Ye. P.; Rubenchik, Yu. I.; Kryakovskiy, Yu. V.; Yavoyskiy, V. I. ORG: 'Krasnyy Oktyabr' Plant (Zavod "Krasnyy Oktyabr"); Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov) TITIE: Effect of rare earth metals on the properties of 12KhlMF steel SOURCE: Stal', no. 1, 1966, 72-73 7 TOPIC TAGS: steel, rare earth metal, steel macrostructure, mechanical property/ 12KhlMF steel The authors studied the nature and distribution of inclusions ABSTRACT: in 12KhlMF tube steel with and without edditions of rare earth metals. Three methods were used for adding the rare earth metals to the melt: 1) in the furnace immediately before tapping (2-3 kg/t); 2) in the pouring ladle (0.2-1.0 kg/t); and 3) in the mold during teeming (0.2-0.7 kg/t). Macrostructural analysis revealed that addition of rare earth elements by any method and in any quantity reduces local segregation of sulfur, Valthough the degree of improvement is highly dependent on the method used for introducing the rare earth metals. For instance, additions of 3 kg/t to the furnace gives about the same effect as addition of 0.7-0.8 kg/t to the ladle. Additions of less than 3 kg/t to the furnace or less than 0.2-0.5 kg/t to the ladle have practically no effect on macrosturcture. Direct . introduction of rare earth metals during teeming has a more noticeable Card 1/2

· L 40206-66

ACC NR: AP6030051

effect. The distribution of sulfur is changed considerably even by additions of '0.5-0.6 kg/t. The mechanical properties of longitudinal specimens were not changed by rare earth treatment regardless of method of introduction or quantity of additive introduced, while treated transverse specimens showed a considerable improvement in mechanical properties. Orig. art. has: 2 figures and 1 table.

[JFRS: 35,681]

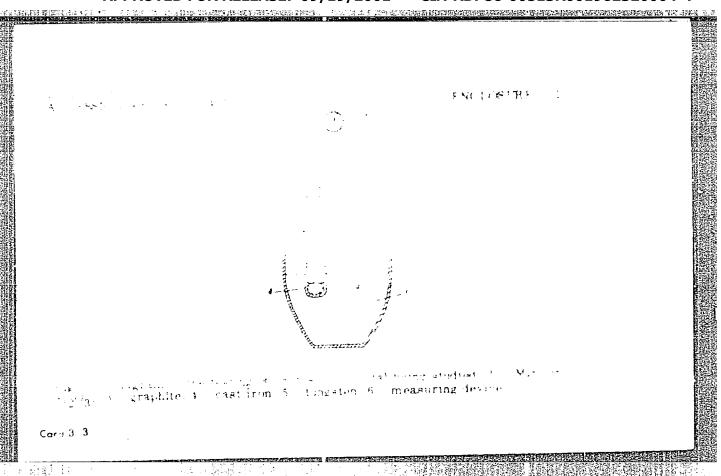
SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 002

Card 2/2

YAVORSKIY, V.I. (IAvors'kyi, V.I.)

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OKOROKOV, B.N.; YAVOYSKIY, V.I.; KADYSHEVICH, A.Ye.; KUCHUR, B.K.

Certain optical and physical properties of the flame cone in a basic, oxygen-blown converter (in the visible part of the radiation spectrum) and their use to control the process. Izv. vys. ucheb. zav.; chern. met. 8 no.5:21-28 '65.

(MTRA 18:5)

1. Moskovskiy institut stali i splavov.

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GOLUBEV, T.M., doktor tekhn. nauk ; YAVORSKIY, V.N., inzh.

Vibratory metalworking by pressure. Mashinostroenie no.6:69-70 N-D '64 (MIRA 18:2)

ACC NRI AR6015996

SOURCE CODE: UR/0271/65/000/012/A028/A028

AUTHOR: Yavorskiy, V. N.; Khomenko, A. A.

TITLE: Transducers of signals proportional to the moments of disturbance

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhuika, Abs. 12A197

REF SOURCE: Sb. tr. Leningr. mekhan. in-ta, no. 41, 1964, 110-117

TOPIC TAGS: electric device, angle measurement instrument, transducer, servosystem,

servomotor

ABSTRACT: In power servodrives the compensation of the moments of disturbance is assured by invariant inputs proportional to the moments of disturbance and their derivatives. Transducers of the moments measured on the shaft of a servomotor are used as invariant inputs. A signal proportional to a moment of disturbance is obtained from a circuit assuring a difference in signals which are proportional to the moment on the shaft and to the second derivative of the angle of rotation variable in time. Individual and combined current transducers are considered. [Translation of abstract] 4 illustrations and bibliography of 4 titles. V. L.

SUB CODE: 09

Card 1/1

UDC: 621.398.694:537.7

YAVORSKIY, V.N.; SHVOL'MAN, V.A.

Reviews and discussions. Izv. AN SSSR. Ser. geol. 29 no.12:101-158 D *64. (MIRA 18:1)

1. Geologicheskiy institut AN SSSR, Moskva (for Shvoltman).

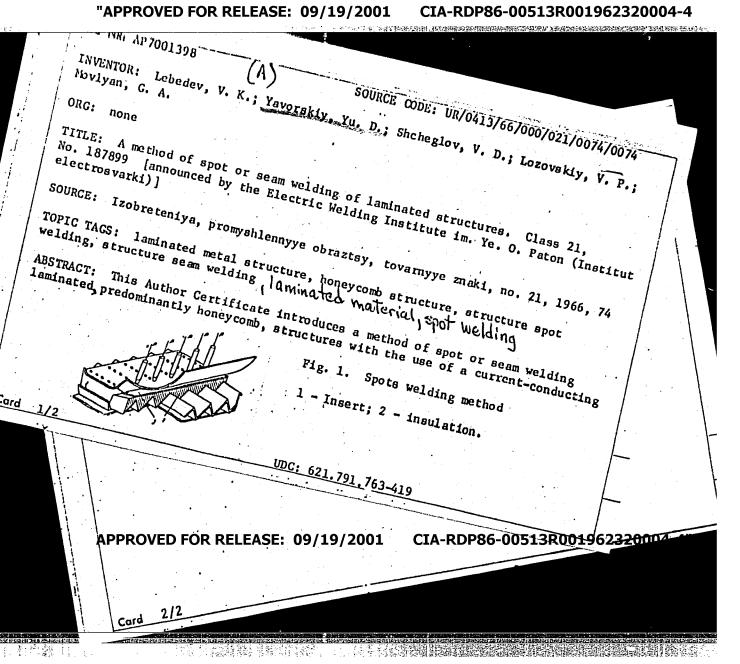
ALIFER; P.P.; POPONDOPULO, A.N.; YAVORSKIY, V.V.

Superheating cast iron by feeding oxygen into the cupola hearth. Lit. proizv. no.1:36-37 Ja 165. (MIRA 18:3)

NEMIROV, V.S., inzh.; YAVORSKIY, V.Yu., inzh.

Outflow of water and turbine oil through short narrow ring slots. Energomashinostroenie 11 no.7:5-8 J1 '65. (MIRA 18:7)

"APPROVED FOR RELEASE: 09/19/2001



1	insert between the elements being welded. To improve the weld quality, the we. current is fed to only one element being welded (see Fig. 1), and the insert in current is fed to only one element being welded (see Fig. 1), and the insert in the form of a comb is insulated from this element and is shifted as the welding of the elements progresses. Orig. art. has: 1 figure.										
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YAVORSKIY, Yu.D., inzh.

Effect of welding conditions on the macrorelief of flashwelded surfaces. Avtom. svar. 17 no.11:17-21 N '64 (MIRA 18:1)

1. Institut elektrosvarki imeni Ye. O. Patona AN UkrSSR.

ANDRONIKASHVILI, E. L., BIBILASHVILI, M. F., VARDENGA, G. L., GVALADZE, T. V., YAVRISHVILI, A. K., KAZAROV, R. E., KURIDZE, R. V. and KHALDEIVA, I. I.

"Angular Distribution of the Penetrating Component of Extensive Air Showers at the Depth of 200 m.w.e."

Report presented at the International Conference on Cosmic Rays and Earth Storm, 4-15 Sep 61, Kyoto, Japan.

Physical Institute, Academy of Sciences, Georiga SSR

YAVRISHVILI, T.D.

"Analysis of cortical potentials."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.

Leiden, the Netherlands 10-17 Sep 1962

KARTASHOV, G.D.; YAVRIYAN, A.N. (MOBCOW)

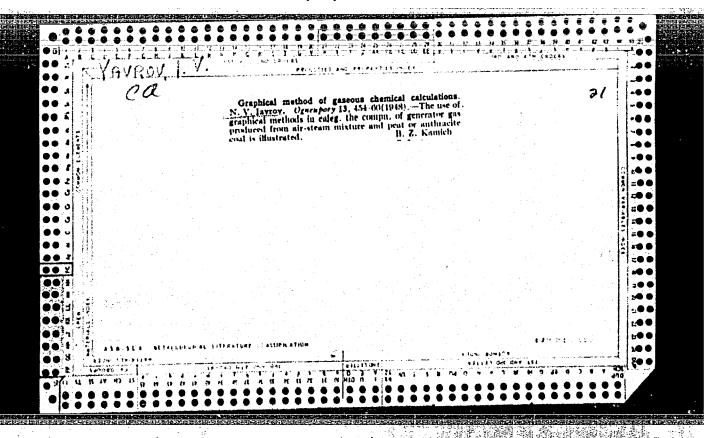
An extremum problem in probability theory. Teor. veroiat. 1 ee prim. 10 no.3:579-584 '65. (MIRA 18:9)

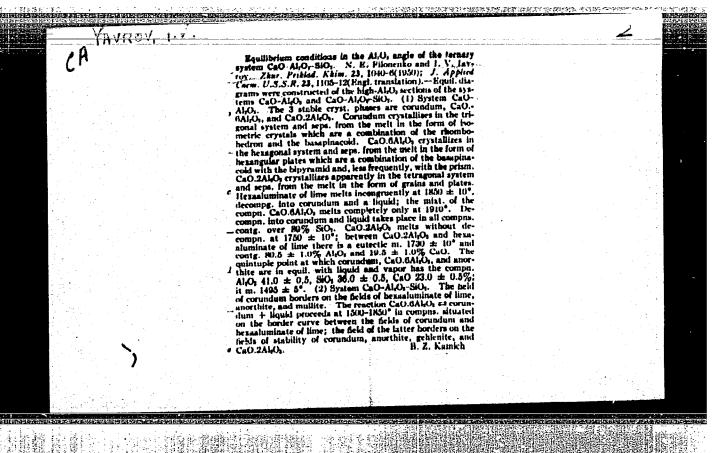
YAYRIYAN, N.P.,inzh.

Rapid reconstruction of steel frames of open-hearth furnaces.

Hont. i spets. rab. v. stroi. 22 no.12:5-7 D'60. (MIRA 13:11)

1. Trest Yuzhstal'konstruktsiya.
(Open-hearth furnaces)





YAVRUMOV, V. A.

PA 46/49177

USSR/Medicine - Malaria, Diagnosis Medicine - Diagnostics

Mar 49

"Erroneous Diagnoses of Malaria," V. A. Yavrumov, Baku, ½ p

"Sov Med" No 3

Problems discussed in Ye. M. Tareyev's article on subject (see 75T64) are of special interest in southern republics, where malaria is one of the prevalent diseases, and consequently other diseases (pappatachi, brucellosis, etc.) can easily be mistaken for it. Gives concrete examples of such errors in diagnosis.

46/49177

YAVRUNOV, V. A.

Quantitative aspect of culture of the colony characteristic of the group of enteric bacteria on second fermentative test; preliminary communication. Gig. sanit. Moskva no. 5:52-53 (CIML 22:3)

1. Of Kaluga Municipal Epidemiological Station.

CIA-RDP86-00513R001962320004-4" APPROVED FOR RELEASE: 09/19/2001

YAVRUMOV, V.A.

Observations on the changeability of the fecal B. coli. Gig.i san. no.9:52-(MLRA 6:8)

l. Kaluzhskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya.
(Bacteria)

YAVRUMOV, V.A.

Immunologic reactivity to dysentery in groups of children and its effect of the course of epidemic. Pediatriia no.4:37-40 J1-Ag 154.

1. Iz Kaluzhskoy gorodskoy sanitarno-epidemiologicheskoy stentsii. (DYSENTERY, BACILLARY, in infant and child, immun. reactivity in child. & its relation to epidem.

YAVRUMOV, V.A.; TESTEROV, M.P.

Paraagglutinating properties of Escherichia coli. Gig. 1 san. no.7: 48 J1 54. (NLRA 7:8)

1. Iz Kaluzhskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (INTESTINES-BACTERIOLOGY)

YAVRUMOV, V.A.; TESTEROV, M.P.

Detection of "masked" dysentery bacteria strains in healthy people. Zhur. mikrobiol. epid. i immun. no.10:99 0 54.

1. Is Kaluzhskoy gorodskoy sanitarno-epidemiologicheskoy stantsii (SHIGELLA PARADYSENTARIAE) (SHIGELLA SOUNEI)

YAVRUMOV, VA,

Subject

: USSR/Medicine

AID P - 2174

Card 1/1

Pub. 37 - 16/22

Author

Yavrumov, V. A.

Title

Apropos of the article by L. I. Shustova and S. L. Petrovich "Unification of the Calculations of Intestinal Bacilli in Sanitary and Bacteriological Analysis of Food Stuffs."

Periodical

: Gig. i san., 4, 53, Ap 1955

Abstract

The author considers the above problem raised in an article of this journal, 1954, no. 5, to be very opportune. He suggests that the Scientific Research Sanitary Institute im. Erisman should work out a unified method of food-stuff analysis and the Ministry of Health a guide of collected All-Union State Standards (GOST).

Institution:

Laboratory of the Medical and Epidemiological Station,

Kaluga

Submitted

: D 22, 1955

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E.coli determ., errors in filter method)
(ESCHERICHIA COLI, determ.
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